

1/1 WPAT - ©Derwent

AN - 1992-034101 [05]
XA - C1992-014825
XP - N1992-026053
TI - Bleach bath contg. nitrilo di:acetic mono:propionic acid as chelant - for ferric iron at specified pH, used for bleaching colour photographic silver halide materials
DC - E16 E31 G06 P83
PA - (GEVA) AGFA-GEVAERT AG
IN - MECKL H; TAPPE G; WICHMANN R
NP - 6
NC - 7
PN - EP-468325 A 19920129 DW1992-05 *
 AP: 1991EP-0111713 19910713
 DSR: BE DE FR GB IT NL

DE4023817 A 19920130 DW1992-06
 AP: 1990DE-4023817 19900727

DE4029805 A 19920326 DW1992-14 16p
 AP: 1990DE-4029805 19900920

JP04251845 A 19920908 DW1992-43 G03C-007/42 14p
 AP: 1991JP-0204577 19910722

EP-468325 B1 19951122 DW1995-51 G03C-007/42 Ger 21p
 AP: 1991EP-0111713 19910713
 DSR: BE DE FR GB IT NL

DE59106932 G 19960104 DW1996-06 G03C-007/42
 FD: Based on EP-468325
 AP: 1991DE-5006932 19910713; 1991EP-0111713 19910713

PR - 1990DE-4029805 19900920; 1990DE-4023817 19900727
CT - EP-270217; EP-293729; US4914008; WO8000624
IC - G03C-007/42 C07C-229/24 C07C-229/76 G03C-005/44
AB - EP-468325 A
 Bleach bath contains a Fe-III complex, in which at least 20 mole-% chelating agent (I) is nitrilodiacetic-monopropionic acid of formula (HOOC-CH₂)₂-N-CH₂-CH₂-COOH and is adjusted to a pH between 6.0 and 4.5.
 At least 80 mol. % of (I) is pref. (IA). The bath pref. contains 1-120 mol. % excess (I). It may contain thiosulphate in an amt. insufficient to fix the undeveloped Ag halide or be free from thiosulphate.
 USE/ADVANTAGE - The bath environmentally friendly and readily biodegradable. it is used for bleaching all colour photographic Ag halide materials, e.g. colour negative and reversal films and paper.
 In an example, selectively exposed colour reversal paper was processed by 45 s development at 35 deg.C 22 s washing at under 20 deg.C, 90 s bleaching at 35 deg.C 45, s washing at 30 deg.C, 45 s fixing at 35 deg. C 90 s washing at 30 deg. C and drying. The aq. bleach bath contained, (A,B) 40g/l Fe(NO₃)₃.9H₂O, 25g/l NH₄Br and 25% NH₃ soln. to (A) pH 5.0 (B) pH 6 or (c) 50 g/l NH₄-Fe-III EDTA, 5g/l ETDA 80 g/l NH₄Br and NH₃ soln. or acetic acid to pH 6.0 baths (B, C) being controls. The development and fixing baths were the same in all cases. Samples bleached in (A,C) were free from residual Ag, whereas those bleached in (B) still contained Ag. (Dwg.0/0)

MC - CPI: E05-L02A G06-G11 G06-G16
UP - 1992-05
UE - 1992-06; 1992-14; 1992-43; 1995-51; 1996-06